

NINETY DEGREE COUPLER FOR RADIO FREQUENCY DEGRADED CIRCUITS

ABSTRACT OF THE DISCLOSURE

The present invention provides a ninety degree coupler for a frequency range of 100 mHz to gigaHertz ranges and including a minimum number of components employing a four port device which receives an input signal and splits it between a transformer coil and another reactor and couples it to another port and splits it between the transformer and a capacitor, then cross-connecting to a capacitor where phase shift is created by the inductors and capacitors resulting in phase shift between the signal ports remaining at 90 degrees over a wide frequency band.